



BOROUGH OF BLYTH

Annual Report on the Health of the Borough and on the work of the Health Department for the year 1943 by the Medical Officer of Health

Your Worship, Madam and Gentlemen: -

It is rare for one Medical man to sign a report like this, in which four Medical Officers of Health are concerned. From January to July 10th, Dr. Stokoe was in charge till he was called up for war service; from July 10th to 25th September, Dr. Duncan was in charge, and signed last year's report; from his departure to the 31st of October, you had Dr. Clarke as locum from the County Council; I joined on the 1st November.

Each individual looks at his work from different standpoints, and assesses the subdivisions with a different measurement, so it is natural each has a trend to carry out his duties in a manner of his own for the public benefit. I have, singly handed, made out a programme of work (see appendix) to cover all the spheres of work without missing any. Each has its own interest, and they possess important values. The various statistics should be pursued, as they are instructive and speak for themselves. I have, under separate sections, commented upon certain important subjects of preventive medicine so as to remove ambiguity concerning many points, and more especially concerning Diphtheria. By putting facts before my Councillors, I trust to gain their co-operation in the abatement of this terrible disease and save life. Only 56 per cent of the children under five years of age have been immunised to date, and only 26.4 per cent completed in 1943 of the estimated population under five years of age.

The housing question is serious in several respects, the chief points being (1) slum conditions, (2) shortage, (3) licences to relet houses unfit for human habitation, (4) overcrowding, (5) demand for transferences from one unsanitary dwelling to another presumed less unsanitary, (6) existence of some unfinished new buildings. My recommendations in connection with this, your most urgent problem of all, are that you request the Minister of Health to give immediate priority for building materials to (3) finish houses which have been left uncompleted, (b) to make habitable the best of the houses in slum clearance areas, (c) to make habitable those houses from which persons have been taken to either (a) or (b). The landlords may be given the option to do the necessary works themselves, or, if they prefer (or won't do them) the Borough Council should renovate and collect the rents. It will be some years before we can tackle the problem adequately, and I regard the disgraceful conditions under which many people are living—and to whom, at present, you can give no relief—justify an immediate demand from the Minister of Health to acquiesce in this solution. The future generation demand some hope from the miserable conditions.

You cannot build a brighter Britain on such rotten foundations. "Man's inhumanity to man makes countless thousands mourn."

The general health is satisfactory, considering the conditions enforced on the people by war. The school age shows the highest number of infectious diseases. The statistics show an increase in cases of tuberculosis, Pneumonia (mainly influenzal), Scarlet Fever and Whooping Cough over those for 1942, and a steady increase of Cancer over thirty years. Of these infectious diseases, Tuberculosis and Pneumonia are each higher than any year since 1936. Over a period of eight years, the highest percentage of deaths is from Tuberculosis.

The main death rates are in the ages of 5 - 15 years, and these are the years in which infection in schools has its greatest influence. This points to drastic action against possible causes. Summarised, you must make every endeavour (a) to have all school children immunised against Diphtheria, (b) the floors of schools, a virulent source of infection, to be more regularly and thoroughly cleansed, (c) that there is adequate ventilation in the school rooms at all times, (d) that a reliable thermometer is kept in each school room, which must

not be overheated.

I am pleased to record that there is, so far, no evidence of lowered nutrition among school children directly due to war conditions.

The appendices show the work done by the various members of the staff.

I have had a table made, which shows the death rates among infants and among the main infectious diseases during the two war-periods from which you will see we have a general lowered rate among these during the present war-period.

I desire to thank the various heads of Departments for their kindly help.

I remain,

Your Worship, Madam and Gentlemen,
Your Obedient Servant,

A. G. NEWELL,

Medical Officer of Health.

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١	PRINCIPLE CAUSES OF INFANT DEATHS WERE AS FOLLOWS:
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39	Congenital Convulsions Convulsions Convulsions Convulsions A Whooping Gough Respiratory(Fneuronia 5-Bronchitis Prematurity Debility Birth Injury Malignant Tumour (Endney) Tumour of Brain Haemorrhagic Diashboots Spina Bifida 5	THE PRINCIPLE CAUSES OF INFANT DEATHS WERE As per 1943 Annual Report in Quart
5 7	Pneumonia 1	FANT DEATHS WERE AS FOLLOWS:- Transferable Deaths of Infants in Quarter ending 31/12/43.
44	944 6244494	Total for year 1943.

A.G. NEWELL.

Medical Officer of Health, Public Health Department, Wellington House, BLYTH.

MEMBERS OF THE HEALTH COMMITTEE: -

Chairman - Alderman H. Donnachie

Vice-Chairman - Alderman J. Mitchell

The Mayor, Councillor Crate,

Alderman Donnachie, "Curry,

Hyde, foy,

" Mitchell, " Hamm,

Councillor Allan, " Macaulay,

" Allen, " Murdy,

Baron, "Purves,

Young, "Raffell,

" Breadin, " Ridley,

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MEMBERS OF THE MATERNITY AND CHILD WELFARE COMMITTEE:-

Chairman - Mrs. Darling,

Vice-Chairman - Mrs. Allison.

Chairman, Vice-Chairman and Members of the Health Committee.

Co-opted Members:-

Mrs. Allison, Mrs. Mordue,

Mrs. Darling, Mrs. Routledge,

Mrs. Gray, Mrs. Searle,

Mrs. Robinson, Mrs. Sowden,

Mrs. Watson.

- STAFF OF THE PUBLIC HEALTH AND MATERNITY AND CHILD WELFARE DEPARTMENTS - 1943

Medical Officer of Health Medical Officer, M.&C.W. Authority School Medical Officer Port Medical Officer

Assistant Medical Officer of Health) and Assistant School Medical Officer

Ophicalmic Surgeon

Oto-Feinologist

Women's Advisory Clinic

Obstatric Emergency Service

Dental Surgeon

Chief Sanitary Inspector

Deputy Chief Sanitary Inspector

Sanitary Inspector

Housing Inspector

Health Visitors

Chief Clerk (temporary)

Junior Clerk

Temporary Overcrowding Clerks

Temporary Shorthand-Typists

A.G. NEWELL, M.D., C.M., L.M.,
D.P.H.

J. STOKOE. M.D., B.S., B.Hy.,

J. STOKOE, M.D., B.S., B. Hy., D.P.H. (with H.M. Forces)

C. BAINBRIDGE, M.B., B.S., B.Hy., D.P.H. (with H.M. Forces).

A.T. PATERSON, M.D., F.R.C.S. (Edin.), D.P.H.

J.A. STENHOUSE, M.D., Ch.B. (with H.M. Forces)

MRS. D. SINTON, M.B., Ch.B.

(PROFESSOR E.F. MURRAY, (M.D., F.R.C.S., F.R.C.O.G. (H.H. EVERS, (M.B., M.S., F.R.C.S., (F.R.C.O.G. (F. R.C.O.G. (M.R.C.O.G. (with H.M. (Forces) (W. HUNTER, M.D., B.S., (M.R.C.O.G.

H.O.J. BEDGOOD, L.D.S.

F.B. HARTLEY, M.S.I.A.

J.G. SIMPSON, M.S.I.A.

F.J. DAVIES, M.S.I.A. (deceased Dec. 21/43)

A.P. ROBINSON, A.R.I.P.H.H. (with H.M. Forces)

(MISS R.M.FINLAY, S.R.N., (S.C.M. (MISS O. DIXON, S.R.N., (S.C.M. (Resigned Dec./43) (MISS D. ROBSON, S.R.N., (S.C.M.

MRS. S. STEPHENS

N. GODFREY (with H.M. Forces)

(C.FELLOWS (T.MORALEE (with H.M.Forces), (T.WALTON

(MISS B. REDBURN " J. DOBSON.

SECTION A.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

ABFA. - No change in the Borough area took place in 1943, and the acreage remains as formerly at 6,487.

POPULATION. - The estimated population is governed by the various conditions incidental to the present Emergency; for Security reasons, precise figures are not given in this Report, but have been noted for the compilation of more detailed Reports which will be called for at the end of the War.

NO. (C. INHABITED HOUSES, i.e. HOLDINGS. 9,332

RATEABOU VALUE. - £165,506

SUM STEVENISHNTED BY A PENNY RATE. - £628

EXTERIOR FROM VITAL STATISTICS. - Against 1942, + or

The Birth Rate per 1,000 Population = 18.1%

" Death " " " " " = 11.9%

" Still Birth Rate per 1,000 Live

& Still Births = 21.0%

" Infant Mortality Rate per 1,000

Live Births = 64.9%

	1941	1942.	1943
Number of Births	573 438	539 384	604 403
Number of Births in excess of Deaths	135	1.55	201

Deaths from Puerperal Causes.
Deaths.

Puerperal State
Other Maternal Causes

Rate per 1,000
Births.

2 3.2
1.6

The rate of 4.8 per 1,000 total Births is 2.2 less than that for 1942.

The principle causes of Infant Deaths were as follows:-

Congenital	·		6
Convulsions	pros		4 *
Whooping Cough	· -		1
Respiratory (Pneumonia 6,	Bronchi	tis 2.)	8.
Prematurity	an said	and the same of	10 *
Debility	·		1 *
Birth Injury		•	1 :
Malignant Tumour (Kidney)	-		7
Tumour of Brain	A 644 A 1 A 1		1.
Haemorrhagic Diathesis			1
Diarrhoea and Enteritis	- '		. 5 *

Deaths from Diarrhoea and Enteritis show-little alteration from 1942, when six deaths were recorded.

^{*} Of these 20 deaths, most probably some could have been prevented.

The principle causes of Deaths (all ages), were as follows:-

,	Males.	Females	To tal	Against 1942 + -
Heart and Circulatory Zymotic Diseases. Diphtheria - 3) Pneumonia - 25)	73 (transferred)	62	135	+ +
Pneumonia - 25) E.C.S.M 2) Whooping Cough - 1) Measles - 1) Cancer Violence	15 30	17 20	32 50	+ + + + + + + + + + + + + + + + + + + +
Suicide - 6) Road) Accidents - 3) Other causes- 11)	15	5	20	+
Intra-Cranial Vascular Tuberculosis Respiratory - 19)	15 13	14	20 27	=
Non-Respiratory- 1) Senility Respiratory Miscellaneous	10 16 7 49	10 13 4 30	20 29 11 79	
	228	175	403	

177 of all deaths were in persons 65 years of age or over = 44%.

Cancer Deaths, 1943 - Situation of Disease.

	Age G	rour	o ir	ı Yo	ear	s				
Site.		Under	36 to	46		166		Maleg	Fem-	Total
51001		36	45	55	65	75	Over 75	naros	arcs	10041
BUCCAL CAVITY (Mo	outh					_	1	1	_	1 - 1
DIGESTIVE (St	tomach & Duodenum	1	1	1	5	2	1	8	3	11
(Oc (Re	olon & Caecu ectum ivor	m —	-	1	3 1	4	- - 1	6	2 .1 1	8 2 1
	ncreas	•		_		<u>-</u> _	. <u>1</u>	1		1 -23
TORY (B:	ing ronchi ediastinum	- - 1	1 -	2	2	 	 	5 3 -	- 2 1	5 5 1 –11
GENITO- (BI	ladde r terus vary	- 1	1 1 -	_ 1 _	_ 1 _			1	- 3 1	1 3 1 - 5
OTHER (BIORGANS (LE	reast arynx idney	- - 1	-	-	5	- 1 -	1 -	- 1 1	3 _	3 1 1 - 5
OTHER (Manalignant (L)	alignant Jaw mphosarcoma ediastinal		-	1 - -	1 - 1	1	-	1 - 1	1 1 -	2 1 1
(D)	Tumour alignant ysgerminoma	1		-		-			1	1 - 5
TO	TAL	5	4	10	17	9	5	30	20	50

GENERAL PROVISION OF HEALTH SERVICES.

BLYTH AND DISTRICT NURSING ASSOCIATION.

As in previous years, Matron Scott of the Blyth and District Nursing Association has provided the following Table which summaries the work done by herself and the Association for the residents in the Blyth area:-

•	Blyth New Delaval Bebside
Number of Nurses	5 1 1
Number of Maternity Cases " " Midwifery Cases " " Medical Cases " " Surgical Cases " " Chronic Cases	165 54 14 100 5 9 146 40 26 265 62 24 27 3 - 703 164 73
Ante-Natal Visits	2,202 407 165
Visits to Maternity Cases " " Surgical Cases " " Chronic Cases " " Medical Cases	5,029 942 585 2,868 802 414 1,420 221 - 1,842 646 530

TREATMENT OF INFANTS AND PRE-SCHOOL CHILDREN.

(Figures applicable to School Children appear in the Annual Report of the School Medical Officer).

Minor Ailments Clinic.

7	No. of Cases.	Total Attendances
Discases of the Skin.		3 004
Impetigo . Others	53	224
Minor Eye Defects.	11	109
Blepharitis	٦	7
Othera	10	16
Minor Ear Defects.		1
Otorrhoea	14	116
Miscellaneous		
Minor Injuries, etc.	23	110
Verminous Heads	15	30
TOTAL.	124	638

Sun-Ray Clinic.

Our real Office			
		Between 1 and 5 years	
		В	G
No. of children		20	33
Attendances	* *	10 Last 12 Last 1773	
4			

48 children were treated for the following complaints:-

Anaemia		1
Rickets	****	12
Bronchitis	****	12
Debility	•	14
Glands	t	⁻ 4
Malnutrition	←	1
Gena Valgum	<u></u>	1
Coryza		7
Heart	\$	i
Asthma		1
Scabies	-	1

Dental Clinic.

	Dengar Cirure			
1		Fillings.	Extractions	No. of Cases
	Children under 5 years	1	78	. 31

Ophthalmic Clinic .-

Number of new patients		. 1 1	ن	33
" old patients				14
Spectacles prescribed	•	,		29
" not prescribed				8
Referred to Minor Ailments Clinic				0

Throat, Nose and Ear Clinic --

Number of examinations and re-examinations - 52
Operations for removal of Tonsils and Adenoids - 11

Orthopaedic Defects --

No case of major Orthopaedic defects in children of this age was reported during 1943.

Scabics Clinic .-

of	Raths				, 	782
11	Dressings		`		,,	528
11	New Patients		/		-	99
11	Old Patients		. 0			13
17	Recurrences		;		-	23
n	Examinations					216
	of n n n	New Patients Old Patients Recurrences	Dressings New Patients Old Patients Recurrences	Dressings New Patients Old Patients Recurrences	Dressings New Patients Old Patients Recurrences	The Dressings New Patients Old Patients Recurrences

LABORATORY FACILITIES

Arrangements continue as in previous years.

Bacteriological (County Council Laboratory, Newburn).

(A) Pathological -

(1) Throat, Nose and Ear Swabs:	
Corynebacterium Diphtheriae present - 64	
not found \rightarrow 308	- 372
Virulent C. Diphtheriae present - 20 /	
not found → 2 -	. 22
Haemolytic Streptococci present - 8	
not found - 11 -	. 19
Vincents present - 1	
not found - 1 -	. 2

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and the second s		The state of the s				
(2) Sputum: B. Tuberculosi	s present not found	- 41 - 233 -	274			
(3) Urine (T.B.) pr	esent t found	- 1 - 2	3			
(4) Pleural Fluid (T.B.) not found	 2	inger			
(5) Blood (Widal) " (Urea)	no reaction	18,00				
(6) Pus (T.B.) pres	ent found		₩ ,3.3 			
n, in the man	nic) B. Dysenteriae (Sonne) isolated B. Dysenteriae (Flexnor) isolated enic organisms found	- 3 - 10 - 10 -	14			
(3) Food, Milk, Wat	er, etc.					
(1) Water Samples (various sources)		50			
(2) Milk Samples.— (a) For B. Tube (b) " Methyle (c) " Pasteur (d) " Phospha (e) " Sterili (f) " Heat Tr	ne Rlue rised Milk	- 165 - 242 - 62 - 4 - 30 - 8	165 346			
Chemical (Public Analyst's Laboratory, Newcastle)						
Water Samples		· .	2			
MATERNITY AND CHILD W	MATERNITY AND CHILD WELFARE SERVICES.					
Home Visiting by F	Mealth Visitors.		· ·			
Number of re-vi	fter notification	- 469 - 984 - 13 -	1,466			
Visits to children		· •••	2,280			
Visits to Expectar First Visits		43	43			
Miscellaneous Visits.	First Visits	Re-visits	Total.			
Puerperal Disease Ophthalmia Neonatoru	9					
TOTALS	9	6	15			
Infant Welfare Clinic	Infant Welfare Clinic.					
No. of First Atte		First Attendances 1-5 yr.	Re-attend- ances 1-5 vr.			

3,459

331

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Table B.

		TOOTO DE	
	Total No. of	Average No. at	
Į	Attendances.	Attendances.	M.O.'s Sessions.
	3,839	37.65	3•39

Total number of children under 5 years of age who attended the Clinic = 470.

The total quantity of milk supplied by the Council et the Clinic to young children, was 6,363 lbs. of Dried Milk.

The following conditions were noted among infants under 1 year of age:-

Congenital Malformations.		
Phimosis		29
Umbilical Herna	-	13
Cleft Palate	-	2
Diseases of the Digestive System		
Feeding Dyspepsia		24
Vomitting and Diarrhoea	←	7
Stomatitis	***	3
Constipation	-	5
Diseases of the Respiratory System.		4, 4 5
Coryza .		4
Bronchitis and Bronchial Catarrh	₩,	7
Diseases of the Skin		
Infantile Eczema		2
Impetigo		263
Minor Injuries		3
Diseases of the Eye		
Conjunctivitis	-	2
Blepharitis	, 	1
Diseases of the Throat, Nose and Ear.	414	
Otorrhoea .	-	2
Cervical Glands		6
Other Diseases.		
Anaemia	₩	2
Cyst	\$ \$	1 .
Torticollis	***	2
Vincents Angina	•••	1

Toddlers Clinic .-

Special Sessions were held on Wednesday afternoons, when necessary, for children between the ages of 2 and 5 years:

No. of Sessions.	Average Attendances.	Examinations by M.O.	Total Attendances.
17	7.1	129	129

At these Sessions, the following conditions were found:-

Congenital Malformations.			
Heart Diseases		-	1
Diseases of the Respiratory Tract		• •	
Bronchitis and Bronchial Catarrh		-	-4
Dental Defects		₩	6.
Diseases of the Skin.			
Scabies		-	3
Impetigo		→ "	5
Diseases of the Eye.	1.		
Squint .		•••	3
Conjunctivitis		-	1

Diseases of the Throat, Nose and Ear.	• ,	
Enlarged Tonsils and Adenoids	-	14.
Otorrhoea		4.
Other Diseases		
Pes Planus		11,
Genu Valgum		11,
Anaemia		3.
Alopecia	-	1.

Fruit Juices Scheme.

The above Scheme was still in operation during 1943, at the following centres:-

Municipal Clinic, Beulah House.
Bebside Senior School.
Newsham Junior School.
Seaton Sluice (Sessions held fortnightly.)

Attendances reached the following figures for 1943:-

Municipal Clinic.	Bebside.	Newsham,	Seaton Sluice
6,181	1,194	2,361	194

The above figures in all columns represent a gratifying increase over those of the previous period and demonstrates the greater appreciation on the part of the mothers of the value to be obtained from these accessory food factors.

Child Life Protection.

Under Section 206 - 220, Public Health Act, 1936, one person was receiving a child for reward at the end of the year. The Health Visitors reported that the child was well cared for in a satisfactory home.

Infectious Diseases in Children under 5 years of age -

		;	Against	1942
Whooping Cough	-	54	-	
Scarlet Fever	-	39	4	
Measles		51	· -	
Pneumonia		1 6	+	
Ophthalmia Neonatorum	-	2		
Diphtheria		13	-	
Epidemic Cerebro Spinal Fever	er Inst	í	-	
Tuberculosis (Respiratory)		2 /	· ·	*
(Non-Respiratory)	-	1	•	
(270-210-2p22-3-00-1) /		179		
·			•	

Health Visitors paid visits to 151 of these cases. All Ophthalmia patients recovered without impairment of vision.

MATERNITY SERVICES.

The statistics show the work done and the number of cases sent to harpitals. The importance of the Child Welfare Clinic cannot be overestimated, and it should be a compulsory duty for all mothers, after leaving their doctors or nurses, within five weeks of the birth of a child, to bring the baby to the Child Welfare Clinic. Imperfect knowledge of hygiene and feeding are among the chief causes of infant mortality. By this, the death rate will be reduced.

Patients admitted to the County Council's Maternity Home at Dilston Hall, Corbridge, are granted treatment free of charge or are assisted in the payment of their fees, according to a scale of charges based upon net income. A number of beds in semi-private wards are available for those able to afford the three guineas per week. (See Table XVI).

Number of patients who completed treatment in 1943:-

Free.	Assisted.	Paid own Fees.	-TOTAL.
101	66	69	236

I have received an interesting report on the working of the Hospital for 1943. It is noted there was a sharp increase of births from Blyth. The total admissions were 1,335, the daily average being 43. Blyth cases numbered 213 of the 1,212 primary admissions. 60% of the cases had partial Ante-Natal care at Dilston Hall. There was an increased prevalence of severe Anaemia. No less than 13 cases had a Haemoglobin rate of less than 45%. In all, 34 blood transfusions, using 67 pints of blood, were administered to 23 patients.

Princess Mary Maternity Hospital, Newcastle, to which the Authority subscribed 40 guineas in 1943, treated a further 28 patients.

Un addition, eighteen cases word treated to Preston Rolls Hospital.

Maternity Outfits.

Bags were loaned out sixteen times during the year.

Dental Treatment.

No. of Mothers.	Extractions.	Local Anaesthetics	Supplied.
9	68	Nil.	7

Ante-Natal Clinic.

The County Council have undertaken for a year, by mutual agreement, to run an Ante-Natal Clinic, and Dr. Jamieson has charge of this. It began on 22nd November, 1943 at Beulah House. I trust after the war, the Council will continue the work with a specialist consulting. It is a public health preventive measure.

There have been eight sessions held to the end of the year. The mothers have routine blood tests done, routine blood pressures taken, the urine is examined each fortnight, and obstetrical examinations are made monthly. The attendances have been large and the midwives are co-operating excellently.

Maternal Deaths.

Causes.Puerperal Sepsis
Caesarian Hysterectomy
Acute Yellow Atrophy

Women's Advisory Clinic.

The following is an extract from a report for which I am indebted to Doctor Dorothea Sinton:-

DIPHTHERIA

Cause: A germ grows on the tonsil and forms a grey to blackish adherent patch. It can grow in the nose and on the vocal cords or sores. The poison (toxin) from it gets in the blood. This poison acts powerfully on the heart and nervous system so that heart failure and paralysis can result. The poison affects all tissues. It can grow in another person's throat and that person become immune to that type of the germ — these persons are "Carriers" of the disease.

Season: Most cases occur between October and March.

Incubation Period: Two to four days from contact, but maybe a week.

<u>Prevalence</u>: Up till recently 60,000 cases notified yearly, with 3,000 deaths. More prevalent among children 1 - 15 years.

<u>Fatality Rate</u>: It is the third most important cause of death in children between the ages of 1 and 5 years, and the most important between 5 and 10 years.

Prevention is secured by a sterile immunisation toxoid. This is injected under the skin in two separate does (of approximately four and eight drops) at a month's interval. It is practically painless. Protection is complete in eight to twelve weeks after the second injection, so that delay is dangerous. To eliminate Diphtheria, we must get at least 50% of children between 1 and 5 years, and 33% of the School children immunised.

Results of Immunisation: Toronto in 1927 had 1,223 cases with 114 deaths. In 1940 this city (larger than Liverpool or Manchester) had not a single case. Parents should note that this is the best Insurance Policy you can give the child and it is <u>free</u>. This active immunisation of susceptible children (1-15 years of age), can protect 90-99 per cent of them. There have been no deaths among our immunised children.

All parents owe a duty both to their children and the community. All voluntary workers, etc., should spread the gospel of immunisation.

In treatment, a much larger quantity of ANTITOXIN is required on suspicion of Diphtheria. 4,000 units may be used and the earlier it is used the milder the case.

Such would be my propaganda leaflet.

An Answer to the Opponents

Why is it you cannot compare the incidence and death rate of one place with that in another, and of one year's rate in the same place with a previous year's effect of the Diphtheria bacillus. There are many factors, thus —

- There are three strains of the bacillus grave form (gravis), a medium form (intermedius), and a mild form (mitis). Only two of three of these strains may exist in one locality whilst one or two might be absent from another.
- 2. The virulence of any strain may differ from that in another locality. Mitis has little power to invade the tissue such as the other strains have.

- 3. The susceptibility to meteorological conditions will differ at different times from those during the same seasons in another locality.
- 4. The natural immunity may be higher on the average in one against that in another locality.
- 5. Acquired immunity through immunisation varies between one another probably against one strain than another.
- 6. The dose of toxoid used in immunisation may at any time, for a given strain, be too little to give protection. One can only dose for protection of the majority and not all on a dosage for the very exceptional case.
- 7. In some areas the children at a certain age (e.g. at 9 years) become naturally immune. To find this out would require testing all under 9 by the Schick Test. On the other hand such immunity may fall any time, and toxoid enforces any natural immunity as well, should such be present.
- 8. If we want to be absolutely sure (100%) that every immunisation is going to give protection, then every case would have to be Post Schick tested to see if the individual was protected and re-immunised then. How many would undergo that? Is it necessary to put the majority to satisfy the "anti" to this procedure for the few cases that occur among the inadequately immunised? The answer is "Yes", to be scientifically accurate, but practically not essential, since the risk of an immunised person taking Diphtheria is twelve times less than the unimmunised, and the chance of the immunised dying is 100 times less.
- 9. Anti-toxin given after the 4th day of the disease has little influence on the disease. (Epidemiology of Diphtheria by W.T. Russell).

The death rate varies:-

- 1. With the type (strain) of the infecting bacillus.
- 2. With the time of onset of the disease, administration of an adequate dose the earlier the dose and its adequacy, the less severe will the case be.
- 3. With the absence of immunisation no immunisation, then less chance,
- 4. The age of the patient.

Proof of Protection:

Six cases of Diphtheria out of 12,000 immunised (P.H. - Dec. 43).

By the Minister of Health - October, 1943.

1st Jan. 1940 to 31st June, 1943 Immunised Children. Had Diphtheria.

107,000 9,500

Carriers:

1. Normal - varies in localities: 5%. It rises before an epidemic by 15 - 20%.

- 2. Convalescent or after Diphtheria a certain number are carriers for a time.
- 3. Mild cases not treated by antitoxin.
- 4. Carriers who have been immunised.

The new drug <u>Penicillin</u> has been found in the crude state to kill Diphtheria bacilli besides Streptococci (causing boils, blood poisoning, etc.), Staplylococci (causing skin rashes, etc.) and Pneumococci (causing Pneumonia). Thus there is added hope for the treatment of "carriers" of Diphtheria being eliminated.

I have dealt with Diphtheria to a greater extent because (1) there is some lessening of the attendance for immunisation, and this may be due, to some influence at work by an "anti" society, as I got a pamphlet of 10 pages against Immunisation, and the replies of mothers to "why not have the child immunised?" in general is the same — "I simply don't believe in it." Asked what reason, or what they know about it, they simply can't reply.

(2) The unsatisfactory state of immunisation among the "under fives" — 26%.

By giving members a clear statement of facts concerning Diphtheria, I trust to gain their help to propagate the knowledge among parents, and thus save incidence, deaths and expense.

DIPHTHERIA AMONG THE IMMUNISED

1942 Ages -	Under 5	5	6	7	8	9	10	11	12	13	14	1 5	16	17	18	19	20
Immunis- ation Completed	₋ 2	ī	2	6	3	6	1	2	1	-		_	¥	-1	1	-	J.

Under 5 years - 2)
5 to 15 years -22) No deaths
Over 15 years - 4)

Total 28

17 Cases between 6 - 9 years inclusive.

1943 Ages -	Under 5	5.	6	7	8	9	10	וו	12	13	14	15	1.6	17	18	19	źo
Immunisa- ation Completed	'	4	8	3	2	9	1	. 5	1	1	1		-		-	-	-

Under 5 years - 7)
5 to 15 years -32) No deaths
Over 15 years --)

Total 39

22 Cases between 6 - 9 years inclusive.

PERIOD AFTER LAST IMMUNISATION

	Under 1 yr.	1	Over 1-1글	0ver 1½-2	2		0 ve r 2 ½-3	over 3-4	Over 4-4½	0ver 4½	No Record	Total
1942	7	1	4	1		1	-	3		9	2	28
1943	7	_	5_	12	1	3	1	3	5	2		39
TOTAL	14	1	9	13_	1	4	1_1_	6	5	11	2	67

N.B. One at 4 months, and all others or under 1 year were above 9 months.

			jide jide jide ∳ .	63 ' Fry Fry	En.	.	- 3	HHHHHHH	l ₄
	•	(a)	(c) (a)	(a) (b)	No. of who com	DIPH	TOTAL	1937 1937 1941 1942 1942	ear
	between 1 children No. of de known to less than	offc offc offc offc offc	Percentage of to be immunis Cases of Diph	proxim the a mber o	child plete	DIPHTHERIA PI	2,343	111 101 101 104 743 743	Under 5 Yrs.
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	an 5 y clu	ы н С С С	יו עוני פיי	٥٣ . د يو يو	luding ourse 31st	CIS - 6	5,242	1 452 689 9 7 7 7 7 7 9 7 7 7 7 7 7 7 7 7 7 7 7	5 to
	Dece (c) ourse	rio man	hild Dece chil	of ch mber, 1	temporary resiof Immunisation December, 1943.	months en		Pop. not known 18% 18% 13%	DIPHTHERIA % of Pop. I
	nber, 194	ich Bati	population ember, 1943. dren under i	children 1943. c immunised	resiation	ended 31s	5 , 585	246 1,543 292 1,543 2,223 2,223 2,223 2,223 2,223 2,23	o l
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		is kno less area	dered			December	Δ	12 no no	4 0 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		UMC	ŀ	Un 2	Under 5 Yrs. 324	1943,	443	ecord 117 117	of YI
	TIN	UI (56%	Under 5 2,295		Blyth			Dipth.
			OO H	Between 5 - 15 4,750	Aged Vrs.5-15 278	h District	1		Cases of after imm
	TIN	20	87%	50 50	TOTAL 602	ct	100	record # # 28 28	of Diph.
	¥				H				tion

ENQUIRIES RE INFECTIOUS DI SEASES Diphtheria Notifications - 1943

Mr. Davies - 65 cases
Mr. Simpson - 26 cases
Mr. Hartley - 7 cases
98 cases

Sanitary Inspectors investigate all cases of Infectious disease above five years of age. Health Visitors do not investigate Diphtheria cases nor Scarlet Fever cases.

Health Visitors do the investigations of children under 5 years of age, re Measles, Whooping Cough, Pneumonia, Ophthalmia Neonatorum, Cerebro-spinal Meningitis. Also investigate details re Puerperal Pyrexia.

WHOOPING COUGH (PERTUSSIS)

2.

Practically all deaths occur among children under five years, and 40 - 50% of those deaths are in infants under one year of age. In 1939, there were 1,273 deaths from Whooping Cough in England and Wales, and of these 90% were under five years, and half under one year. Immunisation for Whooping Cough is not advised before the age of six months.

Pertussis is a preventible disease. It is one of the chief causes of deaths among children under five years of age. It is highly infectious and is reported to affect 60 - 70 per cent of the child population. It is a debilitating disease and has many possible complications (Bronchitis, Pneumonia, Tuberculosis). Vaccines have been found useful, but the supply is short. Early diagnosis by the taking of a post-natal swab is recommended. Early segregation from other children in the house is only practicable by very early diagnosis. The child is not free from infection till a month.

During 1943, we had a total of 54 cases notified of children under five years. The deaths under one year numbered 1.

There were 51 cases of MEASLES notified under the five years of age group.

None of these cases were removed to Hospital, and there was no call for Home Nursing.

INFLUENZA.

There are two known types of the Influenza virus, viz., Virus A and Virus B, and the former is more associated with epidemics and this Virus has been isolated from some of the recent outbreaks.

The Virus is spread by droplets and has a greater viability in dry than in humid atmospheres. Army experiments — where the floors of barracks, offices, etc., were oiled throughout the winter months proved that dissemination from foors can be prevented. The average weekly incidence of respiratory infections was 7 per 1,000 where floors were oiled compared with 38 per1,000 in untreated control units. The poison of the Cirus acts on the nervous system, hence headaches, pains in the back, pains on the limbs, etc. and acute nervous depression, which lowers the resistance to secondary infections (Pneumonia, Otitis, Sinustis). Hence the necessity for bed at the earliest in a well-ventilated room, not overheated. For the possibility of a spread of the severe type locally, emergency measures to meet the situation were ready, but they frightened the bug. Nevertheless, we had 14 cases of Influenzal Pneumonia.

Those who think that the new drug Patulin (under trial) will put an end to the common cold had better hold their whist awhile.

CANCER.

Whilst encouraging results have been received in the treatment of Cancer of the Prostrate gland by means of a synthetic substance - Diethyl Stilboestrol - there is now news from America of dramtic results by the administration of pills containing synthetic oestro-genus. The cure is limited to Cancer of the Prostrate Gland.

An analysis of 1,000 cases of primary cancer of the lung at the Royal Cancer Hospital shows that the disease is four times as common in males than in females, and that engineers, mechanics, painters and decorators, have a high incidence, while clerks have a low one. Four thousand men die every year from prostatic cancer and hope for these cases appears to be well grounded from the trial of Diethyl Stilboestrol, which has been found to inhibit the growth.

Locally, out largest number of cases concerned the Gastro-intestinal tract.

COMMUNAL RESTAURANT AND COOKING CENTRES

The communal restaurant and the cooking centres were inspected by me and found satisfactory, except the want of a vegetable store at one. These ensure that at least one balanced meal can be got by the citizens cheaply, and save domestic toil. It is important to ensure Vitamins content. A concession should be made for all old-age pensioners getting their meal at the restaurant for half the price, and thus help their financial difficulties during the stress of war.

VENEREAL DISEASES

The County Council expect to commence a treatment centre for venereal diseases on 2nd February, 1944, at 22, Stanley St., Blyth, The sessions will be held on Wednesdays and Fridays from 3.00 to 6.00 P.M.

All medical practitioners and the Port Authority have been informed.

PNEUMOCONIOSIS (Dust Diseases)

The Council must be interested in this, and so I briefly touch the fringe of the subject. In coal miners' Pneumoconiosis, we have three periods, viz, (a) Anthracosis, (b) Silicosis and (c) a combination of (a) and (b), Silico-Anthracosis, and now called "reticulation". (a) is regarded as a retarder of tuberculosis, (b) in its later stage an excitor of tuberculosis, and (c) may act either as a retarder or excitor, according to amount of coal dust and Silica present.

Preventive methods in mines or industries are effected by (1) substitution of the noxious dust by a harmless one (e.g. alumina in place of flint in pottery works), (2) water spraying of coal and infusion of water into seams, (3) copious ventilation and even shafts, (4) personal protection of worker by masks.

The size of the dust particles is important. It is rare that particles over 10 microns (1 micron=1/1000 of a millimetre, or 1/25,000th of an inch) reach deeply into the lungs, and in one anthracite mine 94% of the particles were under 5 microns, and 55% were smaller than 1 micron.

The Silicosis Scheme was the result of Trade Union Pressure. The concentration of dust varies from 100 particles to 1,000 particles per cubic centimetre of air, and since in quiet breathing 500 cubic centimetres of air are taken in at each breath, and breathing is at the rate of 16 times per minute, one can realise the enormous number of particles daily inhaled. February, 1943, opens a new era for the afflicted by the passing of the Workmen's Compensation Act, 1943, which extends the provisions of the 1925 act to any form of Pneumoconiosis. Thus, it now includes Silicosis, Asbestosis, Byssinosis (chronic Bronchitis and Emphysema of cotton workers), and coal mining Pneumoconiosis.

INFANT MORTALITY

The proper care of the pregnant woman plays its part in the future life of the infant. But the newly born infant requires intelligent hygienic surroundings and treatment by a mother capable of carrying these into effect, to give the infant its best chance of survival. There are many factors involved in the study of infantile mortality. Primarily, there is biological inheritance, and certain parental diseases have definite effects on the child. The poorer classes have larger families than the richer classes, and we know that infantile mortality goes hand in hand with a higher birth rate, and the explanation seems to be that there is greater mortality in infants coming in rapid succession. In the case of later infantile mortality, the main cause is lack of breast-feeding.

In Cork, of those infants who died from Diarrhoea, no less than 94.5% were artificially fed.

The infants of the poor die mainly from Diarrhoea and Respiratory diseases. The infant mortality is much higher in children who do not attend Welfare Clinics. The Government has accepted assumption B of the Beveridge Report, which postulates the establishment of a comprehensive medical service. We shall soon see how far this scheme goes to save infant life.

The benefits of breast feeding are shown by the investigations at the Chicago Infant Welfare Centre, where among 20,000 infants 48.5 per cent were wholly breast fed, 43.0 per cent were partly breast fed, and 8.5 per cent were artificially fed.

The mortality rate among the artifically breast fed was 56 times greater than among the completely breast fed. .

4, out of 9,749 breast fed died of respiratory disease. 82, " 1,707 artificially fed died of " "

BLYTH DISTRICT

Number of Children Breast and Artificially fed Per Month

Months	1_	2	31	4	5	. 6	7	8	9		Total
Breast Fed	30	45	38	28	24	10	14	13	43		245
Artifi- cially Fed	5	7	12	16	8	13	7	12	50	÷	130

State of Feeding of Infants Found on the First Visit to Homes

Breast Fed	Artificially Fed	Breast Fed Supplemented by Artificial Feeds
406	7:11	AT.

The number of breast fed and artificially fed babies who died of respiratory disease during the year was: 1 Breast Fed and 6 Artificially Fed $\rightleftharpoons 7$.

j

Nutritional Oedema is not uncommon among infants whose protein supply is cut short. Pink disease (a rare form of multiple Neuritis), is considered to have a nutritional relationship.

Gastro-Enteritis or Enteritis of Infants

About 3,000 - 4,000 infants die in this country mostly between June and October from Enteritis, and the main symptoms are vomitting and Diarrhoea, leading to dehydration, the mortality rates being high among the poor. Many organisms have been blamed, and liver damage has been a frequent finding, leading to the view of a toxin being a cause of death. There seems a relationship between respiratory diseases prevalent in the mothers of children and the Enteritis. Bottle feeding is one of the greatest causes of infection, and Social Welfare Workers, in connection with housing estates, can do much to advise as to aseptic bottle washing and cleansing of breasts.

Gastro-Enteritis causes dehydration (i.e., loss of body fluid). The normal full-term baby is made up of 75 - 80% water, so that a great loss of this fluid is a scrious matter. Per pound of body weight, the infant requires daily $2\frac{1}{2}$ ounces (75 c.c.) of water. To maintain health, the infant must have sufficient water for a free urinary output, as the immature kidney cannot deal with a concentrated urine. If an excess of salt be given, there would be Oedema (retained salt water). Therefore, to regulate the salt composition, enough water must be given. In dehydration, there is a loss of 4 to 8% of the body weight. If an infant has vomitting and Diarrhoea, both water and salt are necessary in addition to its daily requirement.

No. of deaths from Enteritis or Gastro-Enteritis, and Respiratory deaths below 1 year of age in Blyth

	<u>Gastro-Enteritis</u>	Respiratory
1942	6	6
1943	5	8

CAUSES OF ALL DEATHS UNDER FIVE YEARS

0.000000	· ALU	DEATING ONDER FIVE TEARING
January		<u>February</u>
Congenital Defects	1	Whooping Cough 1
Infantile Convulsions T.B. Meningitis	1 1	Haemorrhage Diathesis l Congenital Defects l
March		April
Broncho Pneumonia Premature Birth Inanition Marasmus	3 1) 1)	Broncho Pneumonia 2 Acute Enteritis 2 Premature Birth 2 Congenital Defects 1
May		<u>June</u>
T.B. Pulmonary Measles Accident Broncho Pneumonia Premature Birth Debility Congenital Defects	2 1 1 1 1 1 1 1	Broncho Pneumonia 1 Birth Injury 1 Convulsions 1 Convenital Defects 1

July			August	
NIL	e de de		Gastro-Enteritis Malignant Tumour	1
September			(Kidney) Premature Birth	2
:			October	
Convulsions Premature	2	۹.	T.B. Meningitis	1
Birth	2			
November			<u>December</u>	
NIL			Bronchitis	1
			Premature Birth Influenzal	Ţ
			Pneumonia	1
			Tumour of Brain Convulsion	1
			Congenital Defects	1

We require a strong all-round attack against the causes of infant mortality. These are: compulsory attendance at ante-natal clinics, advisory welfare workers for housing estates, day nurseries while mothers are at work, nursery schools, etc. Of three million children under five years of age in Great Britain, only 74,000 have nursery accommodation provided. The burden of motherhood must be eased by Home Helps:- before the war, eight out of every hundred in poor houses died. Communal kitchens or restaurants will add their share of lessening domestic toil.

HOUSING AND OVERCROWDING

Decent housing of the poor and miners is an urgent need. It may be two or three years after the war before adequate housing can be given. There are certain areas scheduled for Slum Clearance, but every house in such an area is not so bad as being absolutely irreparable. Therefore, those which can now be put into a state for habitation for the duration of the war should be permitted by the Ministry of Health to be repaired, and thus relieve overcrowding and assist transference from houses really unfit for human habitation. Likewise, houses partially built, or only the framework erected, should be allowed to be completed. If in either case the local authority does the work, it could draw the rent as part payment of the expenditure and the balance to be by Government grant.

The total number of condemned houses in the scheduled Clearance areas is 962. The Council have purchased sites on which it is proposed to erect 1,250 houses.

Dwellings in clearance area -

Unconfirmed No. of No. of Families

126

126

Number of overcrowded houses at end of 1943 = 359, which includes 127 houses in the confirmed clearance area.

Total number of houses in clearance area up to 31st Dec., 1943, still tenanted = 779.

Number of overcrowding up to 31st December, 1943 -

Municipal Houses
Slum Clearance
Others

50 cases
127 #
182 #
Total

359 cases

Number varies from time to time, owing to increase in families, deaths, removals, etc. It would greatly help the work of Sanitary and overcrowding surveys if agents for houses were compelled to advise the local authority of changes in tenancy.

The number of families on the Priority list for houses to the end of the year is 66, of which 14 are for persons suffering from Tuberculosis and giving risk to other members. Since then there is a list added each month.

SECTION H.

MILK

The basic needs for a satisfactory milk supply are:

The cows to be entirely free of disease. The milk to have a high nutritive value.

That in the drawing off of the milk from the cow, the milk should be clean, the milker's hands should be clean, his throat clear of infectious germs, and the utensils clean. That during transport, no disease germs can enter the milk.

Diseases of the Cow: The most important is Tuberculosis. Its existence varies in different parts of Britain, being on an average 40%. Only a little over one per cent excrete Tubercle bacilli from "open lung" cases, and one case in 500 (0.2%) suffers from Tuberculosis of the udder. The strain of an annual calf predisposes. Insufficient ventilation of byres and Tubercle laden excreta are probable factors in so high a percentage centage.

Other diseases are Mastitis, Streptococcal infection of the udder (Causing Scarlet Fever, Angina), contagious abortion. Herds are tested for Tubercle and their milk is T.T. milk. Conditions 3 and 4 are difficult to attain and hence the necessity for protection of health by some heat process.

Bacteriological Infection: The ordinary souring of milk is due to lactic and associated acids, due to organisms which produce no disease in man. Ill-health from milk results from specific bacteria-producing disease (viz., Tubercle bacilli, Streptococci, and Staphylococci, Entero-Dysenteriae organisms, etc.) Therefore, the main efforts to protect the public are the measures to be taken to eliminate these pathogenic (diseaseproducing) organisms. The new White Paper gives control of the health of the cow and the production of milk to the Agricultural Departments. If, coupled with this, pasteurisation is made compulsory, there is hope for a safer milk supply. Further, the bacteriological reports of the Agriculatural bacteriologists should be forwarded to Medical Officers of Health. We want no hush-hush policy on this vital point. The Medical Officer of Health must still be given power to sample all milk to be pasteurised, with power to reject any unsuitable.

The White Paper retains for local authorities power to deal with infection under Sections 17, 18 and 19 of the Milk and Dairies order of 1926. These powers are not adequate. Whilst a suspected person can be examined, power is not given to examine his excreta. Local authorities will still have the power to enforce the statutory provisions for the protection of milk at depots, retail premises, during transport and distribution.

Milk adulteration will be safeguarded by sale of Milk Regulations, 1901, re-enacted in the Food and Drugs Act of 1938.

The White Paper suggests that the Minister of Food be empowered in certain areas to make it an offence to sell milk by retail unless it is either (1) heat-treated, (2) or sold as T.T. milk, or (3) it is accredited milk sold by a retailer (whether producer, retailer or dairyman), who sells the milk of a single accredited herd (the last a dangerous milk).

T. T. milk, though free of T.B., can convey the other diseases, and so should be pasteurised. The control of this must remain with the local authority.

Where the trade cannot provide the produce-retailers and dairymen with heat treatment apparatus, the local authority can so provide.

The local authority should only licence a plant which has the production licence of the Ministry of Health. The phosphatase test is a laboratory test to find out the efficiency of the heat treatment. Control of contamination, subsequent to pasteurisation, is safeguarded by the Methylene Blue test for the keeping qualities of milk.

Measures to Improve the Quality of the Milk Supply (White Paper Card 6454)

The Government's policy is (1) a sound breeding policy, (2) regular inspection of dairy herds by veterinary officers, and the control of disease, (3) improvement of the conditions under which milk is produced by central control, and (4) increased production and consumption of Tuberculin Tested milk (T.T. milk).

Under new policy:

T. T. Herds

No change in inspections.

Accredited Herds

(a) heat treated - inspection once a year.

(b) not " - once a quarter.

(c) " ", but from attested herd - once in six months.

All other

Herds

(a) if heat treated milk - once a year.

(b) if not " - as far as possible twice a year.

(c) any herds with a bad history - additional

Transfer of Powers:

Minister of Agriculture to be responsible for all matters re the <u>production</u> of milk, and the veterinary staff will supervise the conditions under which milk will be produced. The Milk Testing and Advisor's Scheme will be extended, and all milk going to larger depots will be tested and its keeping quality tested. Production and consumption of T.T. milk to be increased. The producer will get 4s. a gallon, distributors will pay no premium to producers, and the Ministry of Food will take over from producer all his T.T. milk. A maximum price will be prescribed for this T.T. milk to the public, and the distributors will get a margin from this.

inspections.

Before any area is scheduled, the Minister of Food will satisfy himself that adequate plant exists for treatment of the whole of any milk sold in the area (except - (1), (2), (3) above). The Government mean to excercise this control over all areas as soon as is practicable. It is proposed to get the Wartime Associations of Suppliers to submit plans for this heat treatment. Where they fail to provide means for the milk of small producers, then local authorities may install and operate such plants, and will get the margins allowed as for wholesalers. If small producers are put to extra expense by having to transport their milk at a distance, they will be allowed these costs. He will sell his milk to the Milk Marketing Board and buy the heat-treated milk at the price the Ministry of Food sells to any dairyman.

Until the transfer of powers are arranged, milk will continue to be sold as "T.T. milk", "pasteurised", "accredited" or "sterilised" milk.

A census is to be made in all schools to find out the type of milk used, and to give "T.T. milk" or "pasteurised" where such is not used.

Heating and its killing effect on disease germs in milk:-

Typhoid Bacillus are killed at 60°C (140°F) (for several minutes) and in 5 minutes if kept at 60°C. Diphtheria Bacillus are killed at 58°C (138°F) for 10 minutes.

Dysentery Bacillus are killed at 60°C (140°F) for 10 minutes.

Tubercle Bacillus are killed at 65°C (150°F) for 15 minutes, or 70°-80°C (158° - 175°F) by some.

Pasteurisation in closed pasteurisers for not less than 20 minutes at 140°F (=60°C) is recommended.

Thus efficient pasteurisation will kill T.B. bacilli.

Tuberculosis in Cows:-

The prevalence of Tuberculosis in cows can only be found out by the Tuberculin test, since it is known that Tubercle bacilli can gain access to milk from cows which show no signs of the disease, nor on post-morthem examinations of the udder show any infection of them. What is more, the conclusion has been reached that Tubercular cows do not expel Tubercle bacilli until some time after they have contracted the disease. The excrement of Tubercular cows is highly dangerous, even when the lesions are slight.

Bottle Washing:—

It is essential that bottles should be washed and sterilised before they are refilled with milk. Any preliminary rinsing and followed by a wash in lukewarm water is insufficient, and it is ridiculous to put up a costly plant and then put clean milk into unsterilised bottles. Expensive machinery is not always required, but expense is lessened when a large number of bottles have to be done by machinery. It is both to consumer's, as well as Dairy's interest that consumers should put cold water into the bottles after use, and bottles should not be left on the pavements. This should be illegal under penalty. Filthy bottles have to be thrown away at great loss. For dirty bottles a separate tank is required, in which bottles are soaked in a per cent caustic soda solution, as this lessens cleansing.

The bottles then must be washed thoroughly in <u>cold</u> water. This is followed by a hand-brush or power-brush fixed to the washing tank; these brushes provide for internal and external brushing. Next, washing and brushing is done in a <u>hot-water</u> tank. Finally, the bottle <u>must</u> be sterilised by steam.

For larger distributors, there are machines which will wash and sterilise bottles at the rate of 10,000 per hour.

Our Milk Supply:-

The statistics will show you that we have had 16 samples of milk found with Tubercle bacilli; one of these was in pasteurised milk.

The incoming milk must be regarded generally as dirty milk. Whilst one firm is doing good work in offering pasteurised milk, no pasteurisation can make dirty milk clean. At the same time,

pasteurisation to be efficient must be intelligently supervised. An easy method of home pasteurisation is to put the jug containing the milk in hot water just off the boil for twenty minutes by the watch. At the end of that time, it is pasteurised (or repasteurised if pasteurised milk is used).

For a cleaner milk, I think the Government should install (or insist) at each farm a small Preheater for the milk, and a simple Steam Steriliser of churns. Thus the bacterial count will be greatly minimised before the milk reaches a pasteurisation plant. It should insist on certificated supervisors of pasteurisation plants.

SECTION I.

DISINFECTION.

The Sanitary Inspector's report shows the number of times disinfection was employed. There is still much misunderstanding about the value of disinfection, and some people get unduly nervous about it. To disinfect a room with damp walls, cracked ceilings and generally dirty is simply to waste money and time. It is a myth to regard disinfection of any value in Measles, Scarlet Fever, Diphtheria and Chicken Pox. Probably in only Small Pox and Tuberculosis thorough disinfection is called for. Nature supplies us with free disinfectants through ventilation and sunlight; and soap and water goes far for skins, clothes, woodwork, floors, etc. Most pathogens do not live in oil, and so the success of oil for floors, apart from its adhesive properties.

RAT DESTRUCTION

A recent pamphlet on Rodent Infestation drew our attention to a system of baiting for the "extermination" of rats and mice. The system will no doubt destroy these pests, but, in my opinion, it has no claim as a means for "exterminating" them, which it will never do. Rats are more wily than the wiliest among the department concerned. The system is that at first an "invitation" or "luring" baiting of traps is set, with some appetising food of a non-lethal character. Information is sent round by all the rats of this delicacy, so each brings, say, a female partner (or a brother or son), so that the number is doubled next night when they come to eat, not a delicacy, but a very lethal mixture, which, we will say, kills all of them. Against this you have to count the breeding females (six to eight times a year), who will each produce, say on a low average, four young ones. Further, you have to allow for the wiliness of rats, for when they see a number of their fellow creatures dying or missing (and some less infected will be seen dying) then they become chary of the traps, and will even migrate in thousands to other spheres. I have seen thousands of rats, marching in soldiery fashion, going from one village, where rats were dying of plague, to another village. It is an extraordinary sight. Work out the geometrical progression of the suggested system and see where it lands.

Original Invitation Lethal Number Estimated Total
Number Bait eaten Bait Left young fe- remainby Kills males-say ing 1/2 of 4 to each of say 1/2 under column

100,000,000 200,000 400,000 99,600,000 ,99,600,000 199,200,000

E. In next 4 months, your lethal baits will kill exactly half of the month before, and for the 5th month put same as the 4th, then the total is 400,000.

But now the population, at the end of five months, is 199,200,000, less your 400,000 - leaving 198,800,000-nearly 2,000,000 with three or four breeding seasons to come.

These ratios could be proportionately increased to any given original population. The estimate re females is rather on the low side.

Simply killing rats will not exterminate them. The system I found by practical observation was, after trapping, the males are caught and set free. All females caught are put into a bigger cage and as a precaution against rat fleas, the whole cage, containing 50 or over, was put into a drum of Cyllin, to drown both rats and fleas. Each catcher then recorded his "catch", together with notes re pregnancy, etc. This greatly reduces the female population and breeders. The result is fighting between the males for the females. Scratches and infections cause death of some, and also of further females. There is less breeding. I would, in future, advise cutting the male tails to estimate their population.

The system, to be of use in this country, must be a <u>compulsory</u> national scheme. The present dead-letter Rat Bill should be expunged. County Councils and Borough Councils <u>must</u> all carry it out so that no migration can go unattacked. The reduction will be surprising, but it requires the one essential — honesty in baiting and supervision. When the female population comes down to five per cent, it will be time to destroy males, many of whom will die of old age, or grief at the want of a female partner!

The litter from a pregnancy may be up to fourteen the average is put at seven at a birth. This is after a gestation of 22 days. The young are said to be able to be independent of the mother's care after a month. The young females are sexually mature at the age of three months. Thus a female rat can produce a litter every six weeks, but there are seasonal variations in the number of the progeny, the peak being in the three months of March to May. A pair can thus in a year produce a litter of 40 or more. The combined progeny of a pair and their young may produce 600 young in a year. In my figure, I have very greatly reduced the progeny to account for all deaths, so that I think I can only be accused of gross underestimating.

There is a danger in underestimation. In mere rat-killing on the scale proposed, there is a danger of sewer rats going to other areas, or even to houses. In the latter event (forced by need of food), the penalty will not be their nuisance, but the danger to health by the introduction of disease by their contamination and their excreta,

A. R. P.

The First Aid and Rescue parties are now amalgamated under the Borough Engineer as a Rescue Service, and they are responsible for not only the rescue of the casualties, but also for all Pirst Aid, and, therefore, must be fully trained for this latter service. This does not relieve any Warden and others nearby from giving First Aid. The general rule will be to send to all incidents at which there are casualties (trapped or not) at least one Rescue Party and one Ambulance; two ambulances if a large incident if they are available or can be spared. The only exception to this rule will be when a very large raid is on and Rescue Parties cannot well be spared, is for one ambulance to be sent when there are four or less casualties who are untrapped.

GAS: Mustard and Phosgene are the most important poison gases, which may be used, and the public have been well warned to have their respirators tested and be expert in putting them on. Each citizen should know where his (or her) First Aid Post is, or Cleansing Station. They themselves should, by now, know what to do if mustard gas is used.

FOOD DECONTAMINATION: is put under either a Veterinary Officer or a Sanitary Inspector and either officer is responsible to the Medical Officer of Health for the working of the scheme. Food Decontamination Squads consist of 5 persons, and undertake partitime training - both men and women may be used. Locally Mr. Hartley is the Food Decontamination Officer. Permission for the Squads to go out must be got from Main Control.

The County Council is the scheme-making authority, so that this Council is not responsible for their decisions. More local devolution of power, so far as the casualty services are concerned, would have been wiser. The First Aid Posts are staffed by a Medican Officer and between 30 - 50 part-time personnel at each.

The Rest Centres form an important part of the casualty services. People who are rendered homeless by an air raid are casualties therefrom, and require medical supervision.

The shelter accommodation is ample, and the six largest were inspected by me.

Mr. Gibson has been given to me as my A.R.P. Clerk, and is very helpful by his ability.

STAFF (Health Department)

It is a pleasure to record that you have an excellent staff of Health Visitors and Nurses for the clinics, who are punctual and zealous in their work, and have given me every co-operation. The housing question is a matter of vast importance to the miners and the poor people, and so the question of permission to remain in some of the houses in slum areas, and the question of overcrowding requires a great deal of work. It demands my recording that the important duties connected with overcrowding are most conscientiously done by Mr. Walton, who also does the statistical records of the Diphtheria Immunisation. Last year (1942), Mr. Walton paid 8,306 visits. This year it is 3,377, owing to illness and shortage of staff, entailing extra duties. Even after the war, this work must be kept up, but the statistics do not reveal the intricacies connected with the work, as only an examination of the files and records, necessary for the changing conditions, will show. His services then will even be more valuable, as it is hoped some measure of building will go forth. See the Tables re overcrowding.

To Mr. Fellows is due our thanks for the compilation of most of our Health statistics. He is in charge of the records for infectious diseases, and the arranging of the admission to hospital of such cases. It is time, after eight years of good service he was put on the permanent staff, and I recommend this.

There is now a vacancy and need for a permanent male Head Clerk, preferably one who can typewrite.

Sanitary Staff: The work of the staff is largely concentrated in the business area — the ankle and instep of the leg and foot of Blyth's configuration. The work done by the late third Sanitary Inspector averaged about ten visits a day. Thus, at present, there is no call for the vacancy to be filled, but if the Borough Council decide on a third Inspector, then I advise the abolition of the post of Chief Sanitary Inspector, and under Article 28 of the Sanitary Officers (outside London) regulations of 1935, distribute the work of the three inspectors per ward to each, and each to work directly under the orders of the Medical Officer of Health, as prescribed by these regulations. This will give each an independence of action, and an interest in every branch of their work. It will also keep the Medical Officer of Health in direct touch with everything affecting the district.

REMARKS ON STATISTICAL TABLES

Table I. Notified Infectious Diseases for eight years;

- (a) the largest number of notifications from one disease is that for Measles 751 deaths in 1940, and the second to rank in totals is Diphtheria 300 cases in 1941.
 - (b) Pneumonia (82 cases) and Tuberculosis of the lungs (57 cases) have each oblised the highest number of cases in 1943 over that for any of the other seven years.
 - (c) the three chief causes of deaths from Infectious
 Diseases during the last eight years have been Tuberculosis of the lungs 54 per cent of all these
 deaths; other forms of Tuberculosis with 41.9 per
 cent, and Pneumonia 33.8 per cent.

Table II. Age distribution of notifiable diseases:

- (a) note that during school life how markedly infection arises 181 cases between ages 5 10 years, and 52 cases between 10 15 years of age.
- (b) that Scarlet Fever and Diphtheria were the two infectious diseases through schools.
- Table III. (a) cases and deaths from Diphtheria 1941, 1942 and 1943.

 Of 543 cases during the last three years, there were was not a single death among the immunised.

 There was not a single death among the immunised.
 - (b) while in 1942, at least 50 per cent of the cases occurred between January and May, half the cases in 1943 were between September and December.
 - (c) This shows the excess of Scarlet Fever, Pneumonia and Tuberculosis, in 1943 over that of 1942.
- Table IV. Scarlet Fever notifications for two years 1942 and 1943. The table shows how school children between 6 14 years form over 55 per cent of the cases.
- Table V. Tuberculosis cases and deaths for two years → 1942 and 1943. The table shows the incidence and deaths per quarter for all forms of Tuberculosis is practically the same for males and females.
- Table VI. Shows the number of cases of Tuberculosis known to exist among the community.
- Table VII. Shows the age distribution of cases of Tuberculosis the main incidence being between 15 and 35 ages, and practically equally among males and females.
- Table VIII (a) Here I have shown the fatality rate of Diphtheria for 8 years. The lowest was 1.5 per cent in 1936, and the highest 11.1 per cent in 1938.
 - (b) The age distribution of cases of Diphtheria shows the influence of school spread.
 - (d) Total Diphtheria immunications performed to end of 1943, and the number performed during 1943.
 - (e) Of the total 98 cases of Diphtheria in 1947, there were 3 deaths, all NOT IMMUNISED; and of 39 cases of Diphtheria among the immunised, there were no deaths.

Table VIII (f) Cont'd.

Analysis of these 39 cases shows that four months was the least period that clapsed between the last dose and the development of the disease, and this was in case No. 38, which probably had a mild infection at the time without symptoms. There were only three cases which had the attack within ten months. All others varied between ten months and four years.

Table IX.

By this table, I show how during the existing war period of five years, compared with the five years of the last world war, we have an all-round lowered death rate among infents and the Infectious Diseases; but the birth rate shows an average annual fall of 221,

Table X.

This table, ro Cancer Deaths, shows a steady increase in deaths from Cancer during the last thirty years. Like the Tuberoulosis deaths, it is practically equally divided among the two sexes each year. One can only put the influence of coal dust as a possible cause.

Table XI.

This interesting table gives a history over twelve years of the Birth Rate, Death Rate, Infant Mortality Rate and Tuberoulosis Death Rate, and the comparison of these against the rates for England and Wales, as well as against the rates for the counties.

Table XII.

This table shows
(a) the existence of 359 overcrowded houses at
December 31, 1943, involving 2,134 persons.

- (b) that the number of overcrowded holdings is nearly 4 per cent of all the holdings in the Borough.
- (c) that the overcrowded holdings form 13.2 per cent of the slum areas.

Table XIII.

This table gives the details of overcrowding per ward and shows

- (a) that of the holdings in Bebside, 5.77 per centare overcrowded, and in Croft Ward, 4.39 per centare of its holdings are overcrowded.
- (b) that of the holdings in the clearence areas, 21.41 per cent of those in Plessey Ward are overcrowded, and 14.94 per cent of those in Groft Ward.
- (c) of our municipal houses, 2.68 per cent are overcrowded - mainly in Bebside and Oroft Wards.
- (d) This table gives a summary of (a), (b), and (o).

Table XIV

- (a) Shows the number of persons (units) to each family thus there are 2,889 families which are made up of 24 or 3 persons, but the most every crowded are in the families composed of 32 to 4 units.
- (b) Shows the number of houses under the permitted number of units, and the number under each which are overcrowded. Thus, of 1,127 houses, which should contain only 2½ to 3 units, there are 173 of them overcrowded.

REMARKS ON STATISTICAL TABLES (Cont'd)

Table XIV

(c) Shows the state of overcrowding in the Borough
for the last nine years, which shows that for all
practical purposes, the Borough has had for the
last five years, 4 per cent of its houses overcrowded.

TABLE I

INFECTIOUS DISEASES NOTIFIED (1936-1943)

		·							Gross
	1943	1942	1947.	1940	1939	1938	1937	1936	Notals
Scarlet Fever Diphtheria Erysipelas Para or Typh- oid Fever	123 98 13 NIL	65 145 7 NIL	24 300 10 NIL	30 44 16 NIL	95 63 34 3	128 36 33 2	129 37 19 NIL	96 65 21 1	690 788 153 6
Pņeumonia Peurperal Pyrexia	<u>82</u> 6	55 4	3 9	68 9	45 7	44 7	76 10	64 8	473 57
Cerebro-Spinal Fever	1	3	Z	3	NIL	2	1	2	19
Acute Polio- myelitis	NIL	NIL	NIL	1	1	NIL	NIL	י ז	3
Acute En ce ph Letharg	NIL	NIL	NIL	NIL	NIL	1	1	NIL	2
Dysentery Ophth. Neona- torum	4 2	1 5	1 5	18 3	6 2	1 2	NIL 2	NIL	31 22
Tuberculosis	57	38	44	38	47	3 8	35	36	333
(Resp.) # (Other) Whooping Cough Measles Food Poisoning	90 80 NIL	8 79 <u>912</u> 5	299 77 8	11 6 751 NIL	15 4 (Not NIL	lo (No Not NIL	14 Not Ifiab NI L	ifiabl	e) 478 1,820 13
Total Notifi⊷ cations	564	1327	833	998	322	304	324	309	4,981

	NUMBE	R OF	DEATH	Hs (IN	FECTI	ous 1	OI SEA	ses)		% over. 8 Yrs.
	1943	1942	1941	1940	1939	1938	1937	1936	No. of Deaths	8 Yrs. of cases notified
Scarlet Fever Diphtheria Erysipelas Para or Typhoid Fever	NIL NIL NIL	NIL 5 NIL NIL	NIL SO 1	NIL 3 NIL NIL	NIL NIL	NIL 4 2 NIL	NIL 3 NIL	NIL 1 1	2 42 6 1	5.3% 5.3% 3.9% 16,6%
Pneumonia Puerperal Pyr- exia	26 NIL	10	NIL NIL	<u>26</u> 2	14 NIL	16 1	<u>27</u> 2	18 NIL	160 7	33.8% 12.3%
Cerebro-Spinal Fever	1	2	1	NIL	NIL	1	NIL	NIL	5	26.3%
Acute Poliomye-	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	↔
Acute Enceph Letharg	NIL	NIL	NIL	NIL	.2	1	2	2	7	
Dysentery Ophth. Neona- torum	NIL NIL	NIL NIL	NIL	NIT	NIL	NIL	NIL	NIL NIL	NIT	₩ ₩.
Tuberculosis (Resp.)	1 9	<u>25</u>	17	<u>31</u>	24	20	16	28	180	54.0%
(Other) Whooping Cough Mcasles Food Poisoning	l NIL	NIL 2 NIL	3 4 1 NIL	NIL 2 NIL	7 NIL (Not NIL	Noti	6 Noti fiabl NIL	8 fiable e) NIL	40) 5 6 NIL	41.9% 1.0% -3%
TOTAL DEATHS	52	52	70	70	53	50	5 7	59	463	9.5%

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Est

Includes 3 Non-Civilian

	1941 1942	<u>Cases</u> 300 145	<u>Deaths</u> 20	Remarks Not immunised
-	1943	98	3	tt 11
	TOTALS	543	28	

<u>B</u>.

DIPHTHERIA

	1942	•	1943	
Month	No. of Cases Notified	No. of Deaths	No. of Cases Notified	No. of Deaths
January February March April May June July August September October November December	29 15 12 6 13 10 9 10 13 7		7 5 7 11 1 5 2 6 10 22 16	1
TOTALS	145	5	98	3

C.

ANNUAL RETURNS FOR TWO YEARS OF NOTIFIED CASES OF INFECTIOUS DISEASES

	Scarlet Fever	Diphtheria	Erysipelas	Pneumonia	Puerperal Pyrexia	Cerebro Spinal Fever	Dysentery	Oph. Neonatorum	Tuberculosis, Pul.	Tuberculosis, Other	Whooping Cough	Measles
Year 1942	65	145	7	55	4	3	1	. 5	38	8	79	:912
Year 1943	123	98	13	82	6	1	4	2	57,	8	90	80

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	MONTH OF YEAR	January, February March April May July August September October November	#	Total Sales Sales	January February March April May June July August September October		
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TUBERCULOSIS - 1942 and 1943

1942

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Quarter ending 31 March:

STATEMENT OF CASES OF TUBERCULOSIS - 1943

				:	
¥23 ···	48	159	5	171	at the end of the year.
\$				\$ - C - K -	(d) Number of cases remaining on the Register
23	H	9	NIL	13	during the year.
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64	3	28	4		ing the year.
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		:	2	,	(b) Number of new cases notified under the
382	46	140	47	155	at the commencement of year.
			-		(a) Number of cases of Tuberculosis on Register
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TUBERCULOSIS

GRAND TOTALS	TOTALS	Over 65	55 – 65	45 - 55	35 - 45	25 – 35	15 - 25	5 - 15	1 5	0 1			,
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N.N. = Non-Notified T.B. Case.

DIPHTHERIA

A. The Table set out below gives comparison with recent years.

	1943	1942	1941	1940	1939	1938	1937	1936
No. of Notifications " " Deaths Fatality Rate	98 3 3.0%	145 5 3.4%	300 20 6.7%	44 6.8%	63 5 7•99	36 4 11.¥	37 1 2.7%	65 1 1.5%

B. Table recording the age-groups of cases of Diphtheria during 1943.

Age Groups	No. of Cases	No. of Deaths	Fatality Rate
0 - 1 years 1 - 2 2 - 3 3 - 4 4 - 5 5 - 10 10 - 15 0ver 15 years	1 1 10 48 22	1 2 1 1 1 1 1	4.16%
TOTALS	98	3	3.06%

	Treated in Hospital	Treated at Home	Total
Diphtheria Cases Convalescent Carriers (V.T.+) Healthy Carriers (V.T.+)	95 11 2	NIT NIT	98 11 2

D. Diphtheria Immunisation.

		A CONTRACTOR OF THE PARTY OF TH	
	Estimated Child Population	Number fully Immunised	Percentage
Under 5 years 5 - 15 years	2295 4 7 50	1282 4142	56% 8 7 %
TOTALS	7045	5424	77%

1943	Children under school age	School Children
First Doses	600	440
Completed Treatment	606	6 1 5

Total number of children completed immunised during 1943 = 1,221

There were 98 cases of Diphtheria notified in 1943, and of the three deaths, none were immunised. There were 39 fully immunised children who developed clinical symptoms out of the total of 98 cases, but there were no deaths.

<u>F</u> .				100
	- Date Immu		Date of notifi-	
No.	1st Dose	2nd Dose	cation of Diphtheria	Remarks
•	0.2 c.c.	0.5 0.0.	•	
1. 2. 34. 56. 78. 910. 112. 134. 156. 17. 18. 19.	3.10.41 12.4.39 17.4.39 17.4.39 23.7.41 24.7.41 29.7.41 15.3.39 20.12.40 18.4.39 24.9.41 16.4.39 24.9.41 16.41 29.11.40 21.3.39 15.3.39 15.3.39 15.3.39 15.3.39 15.3.39	31.10.41 11.5.39 17.5.39 20.8.41 20.8.41 21.8.42 20.8.41 15.26.6.42 20.8.41 18.4.39 21.5.39 21.5.39 21.5.39 21.7.41 10.1.41 30.6.39 12.7.41 10.1.41 30.9.41 10.1.41 30.9.41 10.1.42 5.1.42	6.1.43 20.1.43 10.2.43 12.3.43 17.3.43 30.3.43 9.4.43 9.4.43 22.4.43 9.5.43 14.5.43 17.5.43 23.8.43 13.9.43 13.9.43 13.9.43	
21.	16.10.42	13.11.42	19.10.43) Both imm	unised same
22.	16,10,42	13.11.42	21.10.43) time & de	
•		•) attack al	out same
23.	21. 1.43 21. 8.42 21. 4.39 21. 4.39	18. 2.43 18. 9.42 19. 5.39 19. 5.39	5.11.43 = 9 mon 12.11.43 13.11.43) Both imm 14.11.43) time & de)attack sa	unised same
27 28 29 30 31 32 34 35 37 37 39	20.11.41 22.8.41 19.1.42 21.1.43 22.12.41 18.10.40 1.5.42 21.1.43 30.1.42 8.6.42 22.7.43 27.6.41	1,12,41 24,9,41 16,2,42 18,2,43 25,5,38 2,42 15,11,40 29,5,42 18,2,43 27,2,42 24,8,42 21,8,43 24,7,41	22.11.43 23.11.43 25.11.43 3.12.43 = 10 mons 4.12.43 10.12.43 11.12.43 11.12.43 14.12.43 14.12.43 27.12.43 27.12.43 27.12.43	ths elapsed.

DEATH RATE DURING TWO WAR PERIODS

1714 - 1710

* T.B.)	Infectious Diseases (other	Diphtheria	Tuberculosis ()	Tuberculosis (Pulmonary)	Infant Mortality: Births 4,001) = 134.4 Deaths 538) per 1,000 births registered
:	Cases 2 Deaths	Cases Deaths	Cases Deaths	Cases	Births 2 Deaths
	2,166)	9) (18	123) 89)	211) 166)	1,001)
		IJ	11	11	d II
,	7.2	17,1	72, 3	78.7	134.4 er 1,000 births registered
than I & T.B.	Infect	Diphtl	Tubero	Tuber (Pulm	Infan

				ths
Infectious Diseases (other than Diphtheria & T.B.)	Diphtheria	Tuberculosis (Other)	Tuberculosis (Pulmonary)	Infant Mortality: Births 2,895) Deaths 153)
Cases Deaths	Cases Deaths	Cases Deaths	Cases Deaths	Births Deaths
3,082) s 124)	6 <u>5</u> 0}	55) 21)	224) 115)	
11	П	11	I	11
4.0	5.5	<u>38.1</u>	<u>51.3</u>	55.9 per 1,000 births registered

Thus, during the existing were there has been a general lowered death rate among infants and among the Infectious Diseases. Note the lowered higher (of 1,106) during the five years 1939-43 against the previous five years - an average annual diminutation at tirrle of 221.

CANCER DEATHS - 1914 - 1943

MALE	FEMALE	TOTAL	YEAR
16 8 11 11 13 27 12 13 20 13 17 13 20 13 17 13 22 23 20 20 20 20 20 20 20 20 20 20 20 20 20	1178-109867872917291772439443944394439443944394439443944394439	18 20 327 2592 396 528 38 522 38 522 38 40 40 40 50 50 50	1914 56789012345678901234567890123

X = The exact figures for these years unobtainable. Taking an average of 10 years previous, it works out at 43.

Blyth Administrative County England and Wales England and Wales Administrative County Death rate from Re-Infant Mortality rate General death rate (pc: Live Birth rate (per living) spiratory Tubercuistrative county. England and Wales Blyth losis (per 1,000 Administrative county England and Wales 1,000 living) 1,000 living) Admin-(per 1,000 births) 0.68 15.94 ならる 11.33 200 12.3 15,42 14.4 18.1 0,60 15.48 14.8 17.7 11.78 756 00053 11,62 7577 000 000 12,02 1936 855 000 12.67 **ごり**の 12.06 15.00 555 13.69 OW G 000 651 651 651 751 2003 12.1 14.80 15,00 12.44 14.3 14.29 002 002 002 0.00 51 50 51 15.07 458 12.84 0.48 52 17.6 11.8 1 1. 0.57 552 18.1 11.9 1.1.

BLYTH BIRTH AND CHIEF DEATH CORRESPONDING RATES FOR RATES COMPARED WITH THE PRINCIPAL COUNTY RATES ENGLAND AND WALES ARE GIVEN FOR COMPARISON:-DURING TEN YEARS.

HOUSING ACT, 1936 - PART IV, OVERCROWDING.

 $\{\xi_i\}_{i=1}^{N}$

A. (i) Number of dwelling (ii) " " familie (iii) " " persons	gs overcrowded at end of year 359 359 359 " 2,134
B. Number of new cases of dur	f overcrowding reported ing the year 55
(ii) Number of persons (iii) " " cases of houses of the cases of the c	f overcrowding relieved ing the year concerned in such cases f overcrowding relieved in owned by the Local Authority ed in C (i) f overcrowding relieved in the of Slum Clearance operations 80 473 111
again become overcrow have taken steps for	ses in which dwelling houses have ded after the Local Authority the abatement of overcrowding NIL with respect to overcrowding
	n the Medical Officer of Health

			,	
	No. of Hold- ings	No. of O/C Holdings	of Total No. of Holdings	O/C Percentage of No. of Holdings in each area.
In Municipal Houses	1,867	50	•54	2 . 68
In Areas scheduled for clearance	962	127	1.36	13.20
In Houses other than the above		182	1,95	2.80
TOTALS	9, 332	3 59	3,85	

O/C = Overcrowded.

WHOLE	Hold-			•		MITATEL FROM HER			e ne filliog servi			CHIM TOWAT		1
ALL COUNCIL HOUSES IN BOROUGH	Hold- Hold- H								50 2,68	1867 1.00%		STEAT POTAT	1 - 4	100%
WHOLE BOROUGH WITHOUT COUNCIL HOUSES OR CLEARANCE AREAS	7-2	2.80	100%	ALL CLEARANCE AREA HOLDINGS	IN BOROUGH.	13.20 86.80	100%		1 1	1.	WHOLE BOROUGH	COUNCIL HOUSES	4.01	
COUNC COUNC	Hold-	182 6321	6503	ALL (AREA	IN B(127 835	962	-	t i		MHOL	COUNC	309	7465
WATERLOO W	Hold-	37 2.16 1673 97.84	1710 100%		W.S.	14 9.72 130 90.28	144 100%	· 참 : :	100	5 100%	,	Tho Tong	51 2.74 1808 97.26	+
Z.Z	H. H.	1.42 98.58	100% 1			13.43			ii	1	:	ات ع اع	2.25	-
RIDLEY	Hold- ings		1762		R.S.	116	1 1	R.M.	1 1	-	,	- - - - -	43	
PLESSEY	Hold- ings %	25 2.75 884 97.25	909 100%		P.S.	27 21.41	126 100%	P. E.	30 2.79 34 97,21	1074 (100%		Whole Ward	82 3.88 27 96.12	1 1
,	He He	2.56 8				10.14			100,00 1044	100% (10			2	1-1
DELAVAL	Hold- ings		315		D.S.	8 2	02	D.M.	1 N			free fortige	16	768
CROFT	d- S	4.39			C.S.	14.94	1 1	C E	4.94			الموال والدالة	5.53	1 1
<u> </u>	Hold-		51253	· • • • • • • • • • • • • • • • • • • •		23 23	154		346			* :	1410	1
BEBSIDE	Hold- ings %	32 5.77 522 94.23	554 100%		B.S.	37 11.08 297 88.92		E	2 4.83 39 95,12			S. Stock	71 7.54	1
A. WARD:	田北	0/c 0/c	TOTAL 5		В	0/c	ij	0)	2/a	T		o.	0/0	17

Families housed at minimum standard = 353

KEY.- 0/C = Overcrowded; U/C = Uncrowded.
B.S.= Bebside Slum; B.M.= Bebside Municipal.

	4	1	, U	· •			1	,
No. of overcrowded dwellings in the previous line	Total Dwellings	Parmitted Number	B) DWEGLINGS.	families in the previous line	W	. Total Families	No. of units	FAMILIES .
ı	٦	<u></u> {1		1		701	다 라	
17.	146	1½ and		1		2522	1½ and 2	
173	146 1127	2½ and		17		2889	1½ 2½ 3½ and and and 2 3 4	
⊢	79	Sz and		110		701 2522 2889 1752 856 376 157		
112	3157	22 2nd 5	Number of dwellings with the shown at the head of each	59		856	and 5	Number num'er column
2 34	949	d and 6	iver of dwellings with the "Permit shown at the head of each column.	87		376	5½ 6½ 7½ end and and 6 7 8	Number of Families containing number of persons shown at the column
16	:287	$\frac{6\frac{1}{2}}{2}$ and	dwell t the	53	_	157	6½ 7 and a	Fami pers
24	1336	7½ 8½ and and 8 9	ings hea	20	-	50	8 C C	lies ons s
N	1336 715 340	ond 9	with d of	10 1	_	17	and s	conta
1		9 <u>2</u> and 10	the	Wi	_	Сi	9½ and 10	ainin at t
ı	238	102 and	"Per	ı		, # >	102 and 11	g the
1	70	11½ and 12	nitted	1		·Ņ.	11.5 and 12	Number of Families containing the equivalor number of persons shown at the head of each column
1	191	12½ and over	"Permitted Number" column.	1			12½ and over	the equivalent head of each
	9	<u></u>			· .			
	9,332		·		. 9,552	, ,		Total
359				359		-		Over- % Over- Crowded Crowded
				3.85%			·	% Over- Crowded
constitutes a " Dwelling "	Each holding	-		353				Borderline Cases.
= p								

i.e. - Adults
i.e. - Adults
Children under 10 years = 1 Unit
of age
Children under 12 months not counted.

		i'o
1935 1936 1937 1938 1939 1940 1941 1942 1943	Year	Table showing Overcro
985 867 564 489 378 420 384	No. Overcrowded	Overcrowding tigures for
10.99 9.14 5.93 5.12 3.35 4.47 4.12	% Overcrowded	or successive years.

the years 1932 to 1943 inclusive.

ere Subscribers to the Colliery Ambulance Scheme).

Miners' wives are allowed to use the Colliery Ambulance free, providing that their husbands

The ambulance charge is similar to the charge made for maintenance for one

week

115/ 106/ 106/ 106/ 106/ 106/ 106/ 106/ 106	Weekly Net income
3	SANGER AND LANGE STREET
5	
= = = = = = = = = = = = = = = = = = =	2
= = = = = = = = = = = = = = = = = = = =	Nu Nu
10/6	mber ir exc]
114/6	Familuding
= = 10/6	y depend
10/6 11/6 224/6 235/6	Number in Family dependent on incoexcluding the child to be bor
114/6 114/6 114/6 128/6 128/6	
¥	ne (per wk.)
>	i i
3	

S 2 ation 1/- per day for each day the patient is in Dilston Hall. Ambulance charges = 35/- per person to be refunded by patient according to income scale the Corporation. For every increase of 5/- per week in the net income, a further 6d. per day is payable to The Income scale is raised 5/- per week for each additional family dependent

paid by the Corporation. The acceptance of the scale of charges fixed according to the following provisions:-(a) Family of 2 dependents (Man and Wife) with net income of 45/- per week pays to the Corpor-

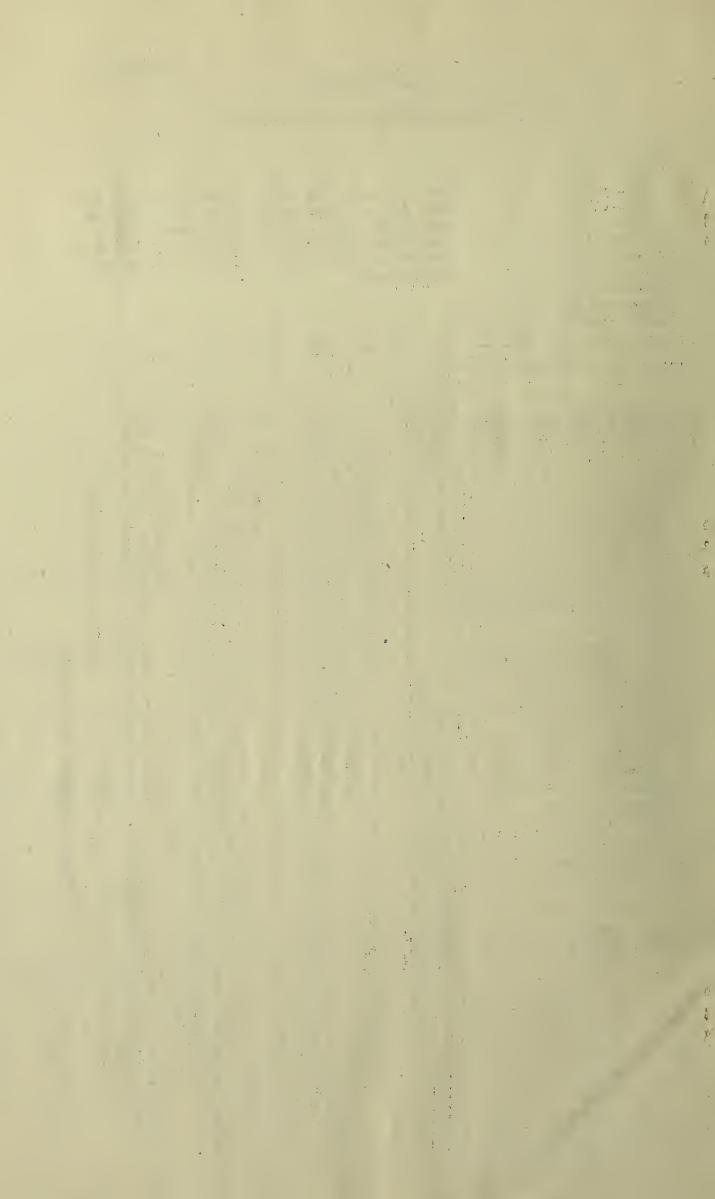
إسا •

By Council Minute 1111/1940 ,

Wives of men serving in a non-commissioned capacity with His Majesty's Forces, and Merchant Navy will have the whole of their maintenance (5/- per day) in Dilston Hall Maternity Home, ..

DILSTON HALL the following scale of charges were agreed to:-MATERNITY SCHEME

TA BLE XVI



3 2

3 3

3

